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| APPLICATION NO. | FILING DATE                | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|-----------------|----------------------------|----------------------|---------------------|------------------|--|
| 10/065,117      | 09/18/2002                 | Kai Martin Mayer     | 201-0463            | 8214             |  |
| 22844           | 7590 02/06/                | 004                  | EXAM                | INER             |  |
|                 | BAL TECHNOL                | HANNON, THOMAS R     |                     |                  |  |
|                 | PARKLANE TOV<br>LANE BLVD. | ERS EAST             | ART UNIT            | PAPER NUMBER     |  |
| DEARBORN        | DEARBORN, MI 48126         |                      |                     | 3682             |  |

DATE MAILED: 02/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | Application No.  | Applicant(s)                |  |  |  |  |
|---|--|-----------------------------|--|--|--|--|
|   | 10/065,117   | MAYER, KAI MARTIN           |  |  |  |  |
| Office Action Summary   | Examiner   | Art Unit                    |  |  |  |  |
|   | Thomas R. Hannon   | 3682                        |  |  |  |  |
| · The MeILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  |  |                             |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |  |                             |  |  |  |  |
| Status  |  |                             |  |  |  |  |
| 1) Responsive to communication(s) filed on  | _•   |                             |  |  |  |  |
| 2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This  | action is non-final.   |                             |  |  |  |  |
| 3) Since this application is in condition for allowar   |  |                             |  |  |  |  |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.   |  |                             |  |  |  |  |
| Disposition of Claims   |  |                             |  |  |  |  |
| 4) Claim(s) 1-11 is/are pending in the application.   | Claim(s) <u>1-11</u> is/are pending in the application.        |                             |  |  |  |  |
| 4a) Of the above claim(s) is/are withdraw   | 4a) Of the above claim(s) is/are withdrawn from consideration. |                             |  |  |  |  |
| 5)⊠ Claim(s) <u>1-6</u> is/are allowed.   | •  |                             |  |  |  |  |
| 6) Claim(s) <u>7</u> is/are rejected.   |  |                             |  |  |  |  |
| 7) Claim(s) <u>8-11</u> is/are objected to.   |  |                             |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or election requirement.   |  |                             |  |  |  |  |
| Application Papers  |  |                             |  |  |  |  |
| 9)☐ The specification is objected to by the Examiner.   |  |                             |  |  |  |  |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  |  |                             |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |  |                             |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |  |                             |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  |  |                             |  |  |  |  |
| Priority under 35 U.S.C. § 119  |  |                             |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>   |  |                             |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.  |  |                             |  |  |  |  |
|   |  |                             |  |  |  |  |
| Attachment(s)   |  |                             |  |  |  |  |
| 1) Notice of References Cited (PTO-892)   | 4) Interview Summary   |                             |  |  |  |  |
| <ul> <li>2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 4.</li> </ul>  | Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:          | atent Application (PTO-152) |  |  |  |  |
|   |  |                             |  |  |  |  |

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Gerhards et al.

Gerhards discloses a crankshaft bearing for an internal combustion engine. Gerhards discloses in column 4, line 62- column 5, line 4: "the crankshaft 4 consists of an iron material whose coefficient of thermal expansion is much lower than that of ht light metal for the crankcase1. With respect to its coefficient of thermal expansion, the material for the cast-in parts 6 is selected such that it is closer to the coefficient of thermal expansion of the crankshaft 4 than to the coefficient of thermal expansion of the crankcase 1. Thus, because of the similar coefficients of thermal expansion between the cast-in parts 6 and the crankshaft, no thermal problems occur as the temperatures rise, particularly no distortion of the bearing bore 3." Moreover, claim 14 of Gerhards states "wherein the cast-in parts have a modulus of elasticity and a coefficient of thermal expansion which are situated in a arrange of the modulus of elasticity and of the coefficient of thermal expansion of the crankshaft." Thus, as the cast in parts 6 control the thermal expansion of the bearing surface of block of the engine, the range claimed in claim 7 is anticipated by Gerhards.

Claims 1-6 are allowed.

Claims 8-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R. Hannon whose telephone number is (703) 308-2691. The examiner can normally be reached on Monday-Thursday (6:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (703) 308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas R. Hannon
Primary Examiner
Art Unit 3682

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